

Bodies in Space - Online Education for Secondary School Students, Phase I

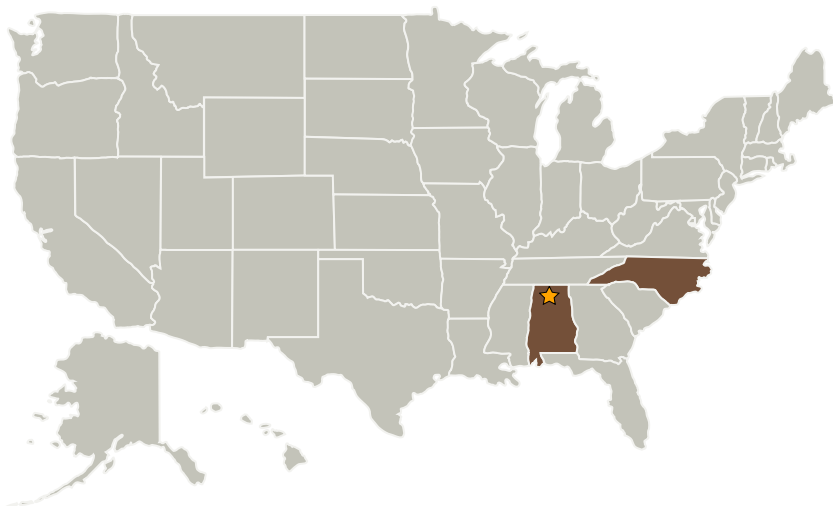
Completed Technology Project (2004 - 2004)



Project Introduction

This SBIR application proposes to develop, evaluate, and implement an Internet-based educational outreach site focusing on the varied biological effects of microgravity. We will develop a website, BodiesInSpace.com, to host the curriculum and courses on the Internet. The curriculum development process will be based on reviews of existing secondary school biology curricula and current NASA publications regarding microgravity and its effects on physiology. The curriculum will be further revised by microgravity researchers, educational design specialists, and teaching physicians. Learning theories that encourage skills and knowledge transfer, such as cognitive flexibility theory, will provide the foundation of the curriculum. Modules will be learner-oriented and support the development of decision-making skills through interactive scenarios. Conveying the excitement of space research, BodiesInSpace.com will focus on relaying information in a manner that will enhance the meaningfulness of the investigations. The website shall provide enhanced remote access allowing secondary school students the ability to access, learn, and participate in science activities. Such interaction will enhance the next generation of explorers' knowledge about and interest in the progress of NASA missions and discoveries.

Primary U.S. Work Locations and Key Partners



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Table of Contents

Project Introduction	1
Primary U.S. Work Locations and Key Partners	1
Organizational Responsibility	1
Project Management	2
Technology Areas	2

Organizational Responsibility

Responsible Mission Directorate:

Space Technology Mission Directorate (STMD)

Lead Center / Facility:

Marshall Space Flight Center (MSFC)

Responsible Program:

Small Business Innovation Research/Small Business Tech Transfer

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Organizations Performing Work	Role	Type	Location
★ Marshall Space Flight Center(MSFC)	Lead Organization	NASA Center	Huntsville, Alabama
Clinical Tools, Inc.	Supporting Organization	Industry	Chapel Hill, North Carolina

Primary U.S. Work Locations

Alabama	North Carolina
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Project Management

Program Director:

Jason L Kessler

Program Manager:

Carlos Torrez

Principal Investigator:

Mary P Metcalf

Technology Areas

Primary:

- TX06 Human Health, Life Support, and Habitation Systems
 - └ TX06.2 Extravehicular Activity Systems
 - └ TX06.2.3 Informatics and Decision Support Systems